

# SMAVIA Recording Server VM III

SMAVIA Recording Server software for virtual environments (VMware ESXi), recording of up to 120 video streams on two instances, ready-to-run image



SMAVIA Recording Server VM III is a high performance server software with a processing capacity for **up to 60 video streams per instance**. Designed for the operation as a virtual machine on server systems with a **VMware<sup>1)</sup> ESXi** hypervisor, SRS VM III can **run in multiple instances in parallel**.

## Up to 120 Video Streams

SMAVIA Recording Server VM III can be licensed with up to 60 channels for recording from **Dallmeier network cameras** or **Panorama<sup>®</sup> systems**. The server software can be operated twice as a virtual machine on a **SMAVIA Enterprise Storage Server**. This allows up to 120 video streams to be recorded on one server.

## Linux Operating System

SMAVIA Recording Server VM III includes a specially adapted and **low-maintenance Linux** operating system. Due to fundamental adaptations and runtime optimizations for the special requirements of the SMAVIA recording system, it is considerably more powerful than comparable recording systems for **Microsoft Windows<sup>2)</sup>** operating systems.

## Ready-to-Run

SMAVIA Recording Server VM III is made available as a **ready-to-run** virtual appliance for systems with a **VMware ESXi** hypervisor. The package of application and operating system can be quickly and easily copied into an instance of the hypervisor and put into operation immediately. The relatively complex installation and customization on systems with Windows operating system is completely eliminated.

## SeMSy<sup>®</sup> Integration

The server software is factory fitted with the **SeMSy<sup>®</sup> Flat** license. Thus, it is optimally equipped for integration into the storage system of a **SeMSy<sup>®</sup> Video Management System**. The server software supports the complete SeMSy<sup>®</sup> functional range including convenient evaluation of recordings on a SeMSy<sup>®</sup> Workstation.

## SMAVIA Viewing Client

**SMAVIA Viewing Client** allows independent and convenient evaluation of the recordings over the network. The software can be installed on workstations with Windows operating system and adjusted individually. **Unlimited licenses** for access with clients are already **included in the scope of delivery** of the appliance.

## PRemote-HD

The optional **PRemote-HD** function transcodes high-definition video streams (live and playback) for **transmission in low-bandwidth networks**. It allows the resource-conserving access with **SeMSy<sup>®</sup>** or **SMAVIA Viewing Client** which is independent of the recording settings.

## VCA Data Base

SMAVIA Recording Server VM III is equipped with a **database** for the analysis results of Dallmeier **network cameras with VCA technology**. The **events, objects and classes** sent by the camera are **stored** with the relevant metadata **almost in real-time**. **SMAVIA Viewing Client** is available for the targeted **search and evaluation** of the events with the **SmartFinder** function.

## SmartBackfill

Dallmeier network cameras are equipped with **RAM memory** that is used by the **EdgeStorage** function to store the video stream in case of a network failure (e.g. Spanning Tree, Bursts). When the network is restored, the optional **SmartBackfill** feature ensures fast transfer to the **SMAVIA recording system**. This stores the video stream at high speed and then seamlessly continues recording the live stream.

## Open Platform

SMAVIA Recording Server VM III is designed as an open platform. Together with the according licenses, **third-party network cameras** can be recorded with **motion detection** and configured over the **ONVIF protocol**.

## Features

- High performance server software
- Parallel operation on 2 instances with 60 channel licenses each
- Up to 120 channels supported on a powerful server system
- Licenses for the update of the software for 24 months included
- Hardened and low-maintenance Linux operating system included
- Ready-to-run package for VMware ESXi hypervisor




1) VMware is a trademark or registered trademark of VMware, Inc. headquartered in Palo Alto, California, USA


2) Microsoft and Windows is a trademarks or registered trademarks of Microsoft Corporation headquartered in Redmond, Washington, USA

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Software	
006416	<b>SMAVIA Recording Server VM III</b> License for the operation of SMAVIA Recording Server VM III on two VMware ESXi instances, unlimited access licenses for SMAVIA Viewing Client included, without channel licenses, ready-to run image on CD (1x dongle)
006417	<b>DLD - SMAVIA Recording Server VM III</b> Extension of an existing SRS VM III dongle with a license for the operation of SMAVIA Recording Server VM III on two additional VMware ESXi instances, unlimited access licenses for SMAVIA Viewing Client included, without channel licenses

Options Server	
	<b>009050.401 Dallmeier Recording Appliance 16</b> Server hardware, 3 RU rack-mount, 1x 24-core 2.1 GHz CPU, 64 GB DDR5 RAM, 12 Gbps data throughput, up to 16x 3.5" HDDs (storage), hardware RAID controller, 1x 256 GB M.2 NVMe SSD (hypervisor), 2x redundant power supplies, VMware ESXi 7.0 included, hard disk drives separately available
	<b>009051.401 Dallmeier Recording Appliance 24</b> Server hardware, 4 RU rack-mount, 1x 24-core 2.1 GHz CPU, 64 GB DDR5 RAM, 12 Gbps data throughput, up to 24x 3.5" HDDs (storage), hardware RAID controller, 1x 256 GB M.2 NVMe SSD (hypervisor), 2x redundant power supplies, VMware ESXi 7.0 included, hard disk drives separately available
	<b>009052.401 Dallmeier Recording Appliance 36</b> Server hardware, 4 RU rack-mount, 1x 24-core 2.1 GHz CPU, 64 GB DDR5 RAM, 12 Gbps data throughput, up to 36x 3.5" HDDs (storage), hardware RAID controller, 1x 256 GB M.2 NVMe SSD (hypervisor), 2x redundant power supplies, VMware ESXi 7.0 included, hard disk drives separately available

Option Network Contacts	
005142	<b>DLC - Ethernet I/O Interface</b> License for the use of the software interface for the connection of the Ethernet I/O interfaces MOXA ioLogik E1210 (16 contacts), E1212 (8 contacts, 8 DI/Os) or E1214 (6 contacts, 6 relays)
	<b>001739 Remote Ethernet I/O Interface</b> Ethernet I/O Interface, 2x Ethernet, 6x contact, 6x relay (MOXA ioLogik E1214)

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## Included Licenses

### DLC - 2 SRS VM III Instances

License for the operation of SMAVIA Recording Server VM III on two VMware ESXi instances

### DLC - 10+ Additional Client Access (Unlimited)

License for the simultaneous access of an unlimited number of SMAVIA Viewing Clients, depending on system load and bandwidth (floating license)

### DCP - Software Maintenance 24 Months

License for the update of the SMAVIA software for 24 months

### DLC - SEDOR® Camera Sabotage Protection

License for the detection and reporting of covering, defocusing and twisting of cameras

### DLC - SNMP

License for the integration into a central SNMP device management system

### DLC - SeMSy® Flat

License for the integration into a SeMSy® Video Management System

### DLC - Multicast Streaming

License for the transmission of video streams via multicast in a SeMSy® Video Management System

### DLC - Multicast Recording

License for the recording of video streams of Dallmeier network cameras using multicast transmission

### DLC - Real-Time Recording

License for real-time recording for all video streams (depending on the camera)

## Optional Licenses (Channels)

### 006418 DLC - 1 Additional Recording Channel (SRS VM III)

License for the use of one additional channel for the recording of Dallmeier network cameras or Panomera® Channels, valid for one instance of the SRS VM III server

### 006419 DLC - 3rd Party Package for 1 Recording Channel (SRS VM III)

License for the use of one existing channel for the recording (permanent, contact controlled or with motion detection) of 3rd party network cameras, valid for one instance of the SRS VM III server

## Optional Licenses (Functions)

### 006424 DLC - PRemote-HD (SRS VM III)<sup>3)</sup>

License for the transmission of SD and HD video with low bandwidth over LAN/WAN, valid for all instances of the SRS VM III server

## Maintenance

### 006427 DCP - SW Maintenance 12 Months (SRS VM III)

License for the update of the SMAVIA software for further 12 months, total maximum of 60 months, valid for all instance of the SRS VM III server

3) Transmission of 4CIF and 1fps supported, no real-time. The first PRemote client (master) is assigned active control over the PRemote stream. Further PRemote clients (slaves) receive the stream passively.

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Software	
Supported hypervisor	VMware ESXi 6.0 / 6.5 / 6.7 / 7.0
Operating system	Linux (proprietary, hardened)
Application	SMAVIA Recording Server VM III <sup>4)</sup>
Application language	English, German, French, Spanish, Italian (others on request)
External management software	SMAVIA Viewing Client, SeMSy® III Workstation Software DMVC App (optional, license for PRemote-HD 006424 required)
External configuration software	Dallmeier Device Manager
ONVIF conformity	Profile S

Performance	
Channels	Up to 60x high definition video streams per instance
Supported cameras	Dallmeier Panomera® multifocal sensor systems Dallmeier network cameras over TCP/DaVid (Dallmeier video protocol) Third-party network cameras with RTSP streaming over UDP/RTP or TCP (optional, license DLC - 3rd Party Package (006419) required)
Track mode	Automatic
Video/Audio compression	H.264, H.265 / G.722.1
Resolutions	Up to 12 MP, depending on the camera
Frame rate per channel	Up to 25/30 fps, depending on the camera
Bit rate per channel	Up to 50 Mbps, depending on the camera
Max. total bit rate	Up to 480 Mbps per instance

Recording	3rd Party IP Camera	Dallmeier IP Camera
Transport protocol	RTP over UDP	TCP
Communications protocol	RTSP	DaVid
Mode Timer	integrated	integrated
Mode Permanent	integrated	integrated
Mode Contact	integrated	integrated
Mode Motion	integrated	integrated
Mode Motion/Contact	integrated	integrated
Switching mode by timer	--	integrated

Functions	3rd Party IP Camera	Dallmeier IP Camera
Motion detection	integrated	integrated
SmartFinder	integrated	integrated
Video proxy	integrated	integrated
SeMSy® multicast streamer	integrated	integrated
PRemote-HD	integrated	integrated
DMVC Server	integrated	integrated
PTZ control with SVC	integrated	integrated
Audio recording	integrated <sup>5)</sup>	integrated
Camera configuration	integrated	integrated
Locking the camera configuration	--	integrated
Recording multicast video streams	--	integrated
EdgeStorage&SmartBackfill	--	integrated
Network scan (IP Finder)	--	integrated
VCA data base	--	integrated

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5) Data refers to a fully equipped SRS VM III instance. Optional licenses are required.

6) Depending on the camera. The audio stream has to be supplied in the format G.711.

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System Requirements Server	
CPU virtual	8 vCPU
CPU cores physical	8 pCPU
RAM virtual	8 vRAM
RAM physical	8 pRAM
Access speed drives	400 IOPsec
Network	1000 Mbps
Operating system	Linux

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